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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,146	12/10/2001	Jay Cunningham	3078/04	7806
26648 7	7590 12/31/2003	•	EXAMINER	
PHARMACIA CORPORATION			SPIVACK, PHYLLIS G	
GLOBAL PAT POST OFFICE	TENT DEPARTMENT E BOX 1027		ART UNIT	PAPER NUMBER
ST. LOUIS, M			1614	(0)
			DATE MAILED: 12/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)			
		10/016,146	Cunningham et al			
		Examiner	Art Unit .			
		Phyllis G. Spivack	1614			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication, period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion reto reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	mely filed  /s will be considered timely.  In the mailing date of this communication.  In (35 U.S.C. § 133).			
1)	Responsive to communication(s) filed on 29	September 2003.				
2a)⊠	This action is <b>FINAL</b> . 2b) Thi	is action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	4) ☐ Claim(s) 1,3,5,7 and 9-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1, 3, 5, 7, 9-13 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.					
-	on Papers	, , , , , , , , , , , , , , , , , , ,				
10)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptance as a fine drawing and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the left.	ccepted or b) objected to by the seed and one of the drawing (s) be held in abeyance. Seed to be required if the drawing (s) is objection is required if the drawing (s) is objection.	e 37 CFR 1.85(a). sjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. §§ 119 and 120						
a)[ * S 13)	Acknowledgment is made of a claim for foreignal   All   b)   Some * c)   None of:  1.   Certified copies of the priority documents   Copies of the certified copies of the priority documents   Copies of the certified copies of the priority application from the International Bure   Copies of the detailed Office action for a list   Copies   Copie	nts have been received.  nts have been received in Applicat ionity documents have been received in Applicat ionity documents have been received in Application (PCT Rule 17.2(a)).  st of the certified copies not received its priority under 35 U.S.C. § 119 (first sentence of the specification of provisional application has been received in the priority under 35 U.S.C. §§ 120	ion No  ed in this National Stage  ed.  e) (to a provisional application)  r in an Application Data Sheet.  ceived.  and/or 121 since a specific			
2) 🔲 Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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Applicants' Reply filed September 29, 2003, Paper No. 8, is acknowledged. Claims 2, 4, 6 and 8 are canceled. Claims 1, 3, 5, 7 and 9-13 remain under consideration.

It is noted the present Declaration does not refer to application S.N. 09/034,270 filed March 4, 1998.

A diligent, but unsuccessful, effort was made to locate all of the references cited on the Information Disclosure Statement filed September 29, 2003, Paper No. 9.

The disclosure is objected to for the following informality: Claim 9, a composition claim, depends from claim 1, a method of use claim.

Appropriate correction is required.

In the first Office Action claims 1-13 were rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6,372,719.

Applicants argue the claims, as amended, are distinct from Patent 6,372,719.

Applicants' argument is not persuasive and the double patenting rejection of record is maintained. Overlapping subject matter remains.

Subsequent to the insertion into claim 1 of an active step involved in the method of use, the rejections of record of claims 1-4 under 35 U.S.C. 112, second paragraph, and 35 U.S.C. 101, are withdrawn.

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Claims 1-13 were rejected in the last Office Action under 35 U.S.C. 112, first paragraph, because the specification does not reasonably provide enablement for treating or preventing any neoplasia disease.

Applicants argue the limitation "sensitive to the combination" delineates those neoplasms encompassed within the claims.

Applicants' arguments have been given careful consideration but are not found persuasive. The rejection of claims 1, 3, 5, 7 and 9-13 is maintained under 35 U.S.C. 112, first paragraph.

The claims are directed to the treatment or prevention of any neoplasia disease sensitive to the claimed combination of a compound of the formula of instant claims 1 and 5 and one of fourteen recited chemotherapeutic agents. The specification provides support for showing an additive effect following the administration of compound XII with cyclophosphamide or cisplatin to treat two distinct tumor cell lines.

Attention is directed to <u>In re Wands</u>, 8 USPQ2d 1400 where the court set forth factors to consider when assessing whether or not a disclosure would require undue experimentation. These factors are:

- 1) the quantity of experimentation necessary
- 2) the amount of direction or guidance provided
- 3) the presence or absence of working examples
- 4) the nature of the invention
- 5) the state of the art
- 6) the relative skill of those in the art

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7) the predictability of the art and

8) the breadth of the claims.

The instant specification fails to provide guidance that would allow the skilled artisan background sufficient to practice the instant invention without resorting to undue experimentation in view of further discussion below.

The nature of the invention, state of the prior art, relative skill of those in the art and the predictability of the art

The claimed invention relates to treatment of any neoplasia disease sensitive to the claimed combination drug regimen and pharmaceutical compositions thereof.

The relative skill of those in the art is generally that of a Ph.D. or M.D.

Each particular neopastic disease has its own specific characteristics and etiology. The unpredictability observed with single agent therapy is compounded when a combination of agents is employed. The broad recitation "treating or preventing a neoplasia disease sensitive to the combination" is inclusive of many pathologies that presently have no established successful therapies.

It is clear the art to which the present invention relates is highly unpredictable and unreliable with respect to conclusions drawn from laboratory data extrapolated to clinical efficacy.

## The breadth of the claims

The claims are very broad and inclusive of any neoplasia disease sensitive to the claimed combination.

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The amount of direction or guidance provided and the presence or absence of working examples

The working examples are limited to a showing of an additive effect following the administration of compound XII with either cisplatin or cyclophosphamide in two distinct tumor cell lines.

## The quantity of experimentation necessary

Applicants have failed to provide guidance as to which particular chemotherapeutic agent in combination with which particular compound of the formula of claims 1 or 5 would be preferred for treatment or prevention of other neoplastic diseases, besides the two examples disclosed supra. The skilled artisan would expect the interaction of a particular combination of drugs in the treatment of a particular disease state to be very specific and highly unpredictable absent a clear understanding of the structural and biochemical basis for each agent. The instant specification sets forth no such understanding nor any criteria for extrapolating beyond the combination of compound XII with either cyclophosphamide or cisplatin. Absent reasonable a priori expectations of success for using a particular chemotherapeutic combination to treat any particular neoplastic disease, one skilled in the oncology art would have to test extensively many combinations of agents to discover which particular disease responds to that particular combination. Since each prospective embodiment, as well as future embodiments as the art progresses, would have to be empirically tested, undue experimentation would be required to practice the invention as it is claimed in its current scope. The specification provides inadequate guidance to do otherwise.

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Claims 1-13 were rejected in the last Office Action under 35 U.S.C. 103 as being unpatentable over Rogers et al., U.S. Patent 6,013,651 and Remington's Pharmaceutical Sciences.

Applicants argue Rogers et al. is a co-owned patent that was filed on March 4, 1998 and assigned to G.D. Searle & Co. The inventors in the present case are under obligation to assign to G.D. Searle & Co.

Accordingly, the rejection of record under 35 U.S.C. 103 is withdrawn.

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Phyllis G. Spivack at telephone number 703-308-4703.

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Phyllis G. Spivack Primary Examiner Art Unit 1614

December 28, 2003

PHYLLIS SPIVACK PRIMARY EXAMINER

Phyllis Spivack